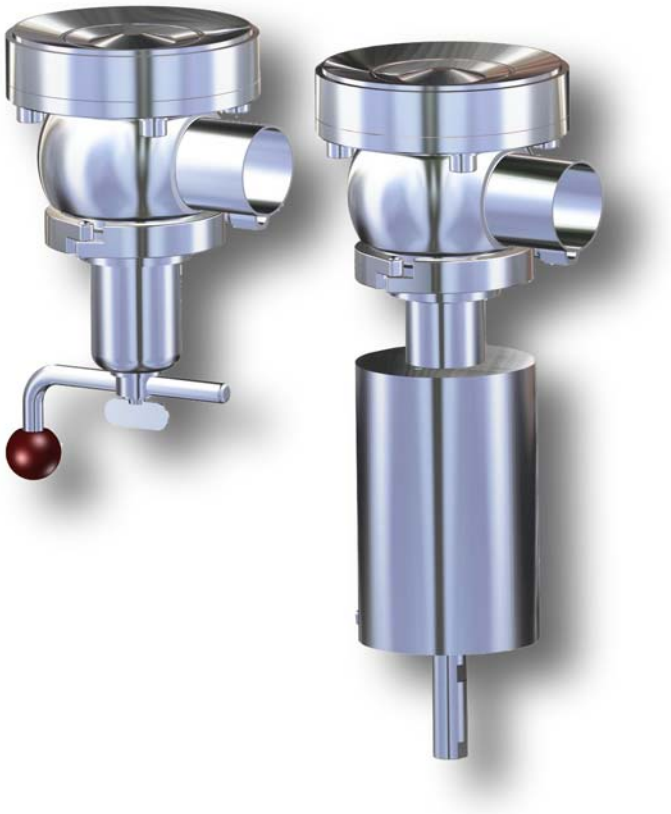
KIESELMANN
FLUID PROCESS GROUP

Operating instructions

- Translation of the original -

KI-DS - Tank outlet valves

Type 5527 - manual operation
Type 5528 - pneumatic operation



English **GBR**

3.8.15

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1. List of contents

2. General safety instructions

2.1 Information for your safety

We are pleased that you have decided for a high-class KIESELMANN product. With correct application and adequate maintenance, our products provide long time and reliable operation.

Before installation and initiation, please carefully read this instruction manual and the security advices contained in it. This guarantees reliable and safe operation of this product and your plant respectively. Please note that an incorrect application of the process components may lead to great material damages and personal injury.

In case of damages caused by non observance of this instruction manual, incorrect initiation, handling or external interference, guarantee and warranty will lapse!

Our products are produced, mounted and tested with high diligence. However, if there is still a reason for complaint, we will naturally try to give you entire satisfaction within the scope of our warranty. We will be at your disposal also after expiration of the warranty. In addition, you will also find all necessary instructions and spare part data for maintenance in this instruction manual. If you don't want to carry out the maintenance by yourself, our KIESELMANN service team will naturally be at your disposal.

2.2 Marking of security instructions in the operating manual

Hints are available in the chapter "safety instructions" or directly before the respective operation instruction. The hints are highlighted with a danger symbol and a signal word. Texts beside these symbols have to be read and adhered to by all means. Please continue with the text and with the handling at the valve only afterwards.

Symbol	Signal word	Meaning
	**DANGER**	Imminent danger which may cause severe personal injury or death.
	**ATTENTION**	Dangerous situation which may cause slight personal injury or material damages.
	**NOTE**	Marks application hints and other information which is particularly useful.

2.3 Designated use

The fitting is designed exclusively for the purposes described below. Using the fitting for purposes other than those mentioned is considered contrary to its designated use. KIESELMANN cannot be held liable for any damage resulting from such use. The risk of such misuse lies entirely with the user. The prerequisite for the reliable and safe operation of the fitting is proper transportation and storage as well as competent installation and assembly.

Operating the fitting within the limits of its designated use also involves observing the operating, inspection and maintenance instructions.

2.4 Personnel

Personnel entrusted with the operation and maintenance of the tank safety system must have the suitable qualification to carry out their tasks. They must be informed about possible dangers and must understand and observe the safety instructions given in the relevant manual. Only allow qualified personnel to make electrical connections.

2.5 Modifications, spare parts, accessories

Unauthorized modifications, additions or conversions which affect the safety of the fitting are not permitted. Safety devices must not be bypassed, removed or made inactive. Only use original spare parts and accessories recommended by the manufacturer.

2.6 General instructions

The user is obliged to operate the fitting only when it is in good working order. In addition to the instructions given in the operating manual, please observe the following:

- relevant accident prevention regulations
- generally accepted safety regulations
- regulations effective in the country of installation
- working and safety instructions effective in the user's plant.

3. Safety instructions

3.1 Field of application

Tank outlet valves are used in food and beverage as well as in pharmaceutical, biotechnological and chemical industries.

ATTENTION
- To avoid danger and damage, the fitting must be used in accordance with the safety instructions and technical data contained in the operating instructions.

3.2 General safety instructions

DANGER
- Danger of crushing or amputating limbs.
  Do not reach into the valve housing when in pneumatic mode.
- Dismantling the valve or valve assemblies from the plant can cause injuries from fluids or gases flowing out.
  Dismantle the valve or valve assembly only when the plant has been rendered pressure-less and free of liquid and gas.
- The spring preloaded valve insert (air open - spring close) may incur serious injuries by jumping out of the housing.
  Pneumatically open the valve before disassembling the clamp coupling, so that upstroke the piston in direction “X“ (Fig. 1 / page 9).
- For valves or plants/installations that are operated in a ATEX area, must be considered the valid ATEX Guidelines EG and the Installation instructions (page 5).

ATTENTION
- To avoid air leaking, only use pneumatic connection parts that have an o-ring seal facing the even surface.
- When mounting the clamps, the max. torque must not be exceeded (see technical data).
- Steps should be taken to ensure that no external forces are exerted on the fitting.

3.3 General notes

NOTE
- All data are in line with the current state of development. Subject to change as a result of technical progress.

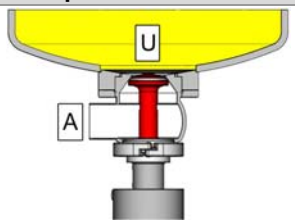
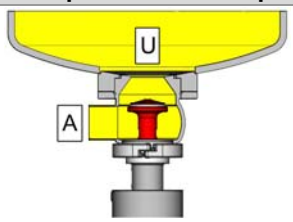
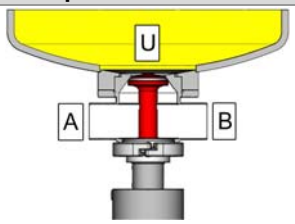
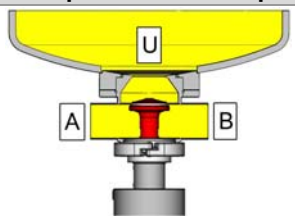
4. Function

4.1 Functional description

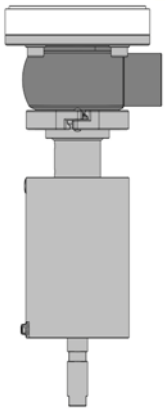
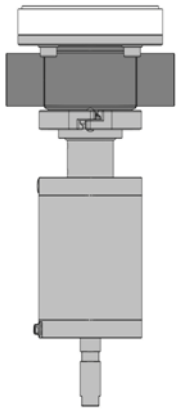
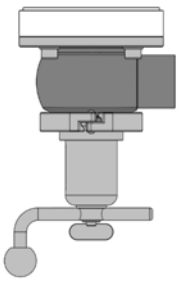
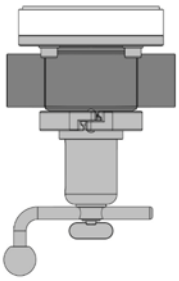
- Function of valve: Shut off fluid media in tanks and vessels.
  (see Fig.A and B)
- Operation:
  - pneumatic operation by a lift drive (air/spring; air/air)
  - manual operation by a crank-handle (open ↺ / close ↻)
- Activation: Pneumatically over a 3/2-way solenoid valve.
  (see “Pneumatic valve actuation” on page 7.)

- **air open - spring close (NC) Basic position: Valve close (Fig. A.1 - A.2)**
  - ▶ pneum. operated ⇨ opens the valve
  - ▶ not pneum. operated ⇨ spring force closes the valve
- **spring open - air close (NO) Basic position: Valve open (Fig. B.1 - B.2)**
  - ▶ pneum. operated ⇨ closes the valve
  - ▶ not pneum. operated ⇨ spring force opens the valve
- **air open - air close (DA) Basic position: Valve close (Fig. A.1 - A.2)**
  - ▶ pneum. operated ⇨ opens the valve
  - ▶ pneum. operated ⇨ closes the valve

4.2 Basic position for pneum. operation valves

	air open - spring close (NC) air open - air close (DA) **Basic position: Valve close**	spring open - air close (NO) **Basic position: Valve open**
Type: 5528 S Angle design	 Abb. A1	 Abb. B.1
Type: 5528 SS T - design	 Abb. A2	 Abb. B.2

5. Valve types

	Angle design S	**T - design S-S**
pneumatic operation **Type 5528**		
manual operation **Type 5527**		

6. Installation informations

6.1 Installation instructions

Preferably install the tank outlet valve vertically with the actuator at the bottom. Install the connection lines in such a way as to permit the liquids to drain freely out of the housing.

NOTE
For disassemble (maintenance) a detachable connection must be provided in the pipeline.

6.2 Welding guidelines

Sealing elements integrated in weld components must generally be removed prior to welding.

To prevent damage, welding should be undertaken by certified personnel (EN287). Use the TIG (Tungsten Inert Gas) welding process.

NOTE
Impurities can cause damage to the seals and seals area. Clean inside areas prior to assembly.
To avoid a distortion of the components, all welding parts must be welded to stress-relieved.

6.3 ATEX guidelines

For valves or plants/installations that are operated in the ATEX area, sufficient bonding (grounding) must be ensured (see valid ATEX Guidelines EG).

7. Service and maintenance

7.1 Maintenance

The maintenance intervals depend on the operating conditions

- temperature, temperature-intervals
- medium and cleaning medium
- pressure and opening frequency

We recommend replacing the seals every 1 years. The user, however should establish appropriate maintenance intervals according to the condition of the seals.

NOTE

		Lubricant recommendation
EPDM; Viton; k-flex; NBR; HNBR	⇨	Klüber Paraliq GTE703*
Silicone	⇨	Klüber Sintheso pro AA2*
Thread	⇨	Interflon Food*

**) It is only permitted to use approved lubricants, if the respective fitting is used for the production of food or drink. Please observe the relevant safety data sheets of the manufacturers of lubricants.*

➤ **Actuator**

The actuator is maintenance-free and non-removable.

7.2 Cleaning

Cleaning of the upper and lower valve chambers is performed with the pipe cleaning system.

8. Control system - and interrogation system

8.1 Control head-optional-

Optionally, modular valve control systems can be installed to the actuator for reading and actuating valve positions. The standard version is a closed system with twofold limit position messaging (standard), with SPS, Interbus or ASI bus switch-on electronics, and integrated 3/2-way solenoid valves. For tough operating conditions we recommend employing a stainless steel hood.

8.2 Sensor mounting set -optional-

For the acquisition of the valve positions over inductive initiators, a limit switch support is mounted on the actuation. The enquiry takes place over the position of the piston rod.

9. Technical data

Model:	Tank outlet valves - manual and pneumatic operation
Valve size:	NPS 25 - NPS 100 NPS 1“ - NPS 4“
Connections:	Welding end DIN EN10357
Temperature range:	• Ambient temperature: +4° to +45°C • Product temperature: +0° to +95°C medium dependent • Sterilization temperature: EPDM +140°C short-time (30 min.) HNBR +130°C short-time (30 min.)
Control air pressure:	NPS 25 - NPS 65 / NPS 1“ - NPS 2½“ = min. 5,5 bar NPS 80 - NPS 100 / NPS 3“ - NPS 4“ = min. 6,0 bar
Pressure Nominal (bar):	PN10
Quality of control air:	ISO 8573-1 : 2001 quality class 3

Material:	**in product contact**	**not in product contact**
Stainless steel:	1.4404 / AISI316L	1.4301 / AISI304 1.4305 / AISI303
Surfaces:	RA ≦0,8µm	metallic bright, e-pol.
Seal:	EPDM (FDA) HNBR (FDA)	HNBR

Tightening moment: (Clamp coupling)

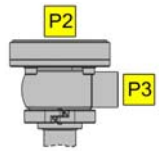
Nominal pipe size

DIN	25	40	50	65	80	100
Inch	1	1½	2	2½	3	4
Torque in Nm	15	15	15	25	25	55

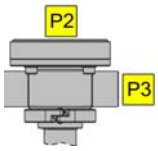
max. operation pressure - manual operation (bar):

DIN	25	40	50	65	80	100
Inch	1“	1½	2	2½	3	4
	10	10	10	10	10	10

max. operating pressure - pneum. operation (bar):
(6bar Control air pressure)



air open / spring close
spring open / air close
air open / air close



air open / spring close
spring open / air close
air open / air close

Nominal pipe size

DIN	25		40		50	
Inch	1		1½		2	
	P2	**P3**	**P2**	**P3**	**P2**	**P3**
	9,5	10,5	8	12	6	9
	9,5	11	7,5	12	6,5	8
	9,5	11	8	12	6,5	9

DIN	65		80		100	
Inch	2½		3		4	
	P2	**P3**	**P2**	**P3**	**P2**	**P3**
	6	8	7,5	8	5,2	6,5
	6	8	6	10	5,2	6,4
	6	8	7,5	10	5,2	6,5

10. Pneumatic valve actuation

10.1 Actuator: air open - spring close (NC)

Valve function	pneumatic control with MV in control unit (Fig. 1 / page 7)	pneumatic control with external solenoid valve (MV) (Fig. 1 / page 7)
Valve "OPEN"	control air feed P ➟ MV1 ➟ P1/LA2 Valve is opening by control air	control air feed external MV ➟ LA2 Valve is opening by control air
Valve "CLOSED"	de-aeration LA2/P1 ➟ MV1 ➟ R Valve is closing by spring	de-aeration LA ➟ external MV Valve is closing by spring

10.2 Actuator: air close - spring open (NO)

Valve function	pneumatic control with MV in control unit (Fig. 1 / page 7)	pneumatic control with external solenoid valve (MV) (Fig. 1 / page 7)
Valve "CLOSED"	control air feed P ➟ MV1 ➟ P1/LA1 Valve is closing by control air	control air feed external MV ➟ LA1 Valve is closing by control air
Valve "OPEN"	de-aeration P1/LA1 ➟ MV1 ➟ R Valve is opening by spring	de-aeration LA1 ➟ external MV Valve is opening by spring

10.3 Actuator: air open - air close (DA)

Valve function	pneumatic control with MV in control unit (Fig. 1 / page 7)	pneumatic control with external solenoid valve (MV) (Fig. 1 / page 7)
Valve "OPEN"	control air feed P ➟ MV1 ➟ P1/LA1 Valve is opening by control air	control air feed external MV ➟ LA1 Valve is opening by control air
Valve "CLOSED"	de-aeration P ➟ MV3 ➟ P3/LA2 Valve is closing by control air	de-aeration external MV ➟ LA2 Valve is closing by control air

MV = solenoid valve
R = de-aeration, sound absorber
P = compressed-air inlet (control unit)
LA = compressed air inlet (actuation)
S = slide switch - manual control (solenoid valves)

I = initiators
H = angle bracket
E = de-aeration
LA = air connection

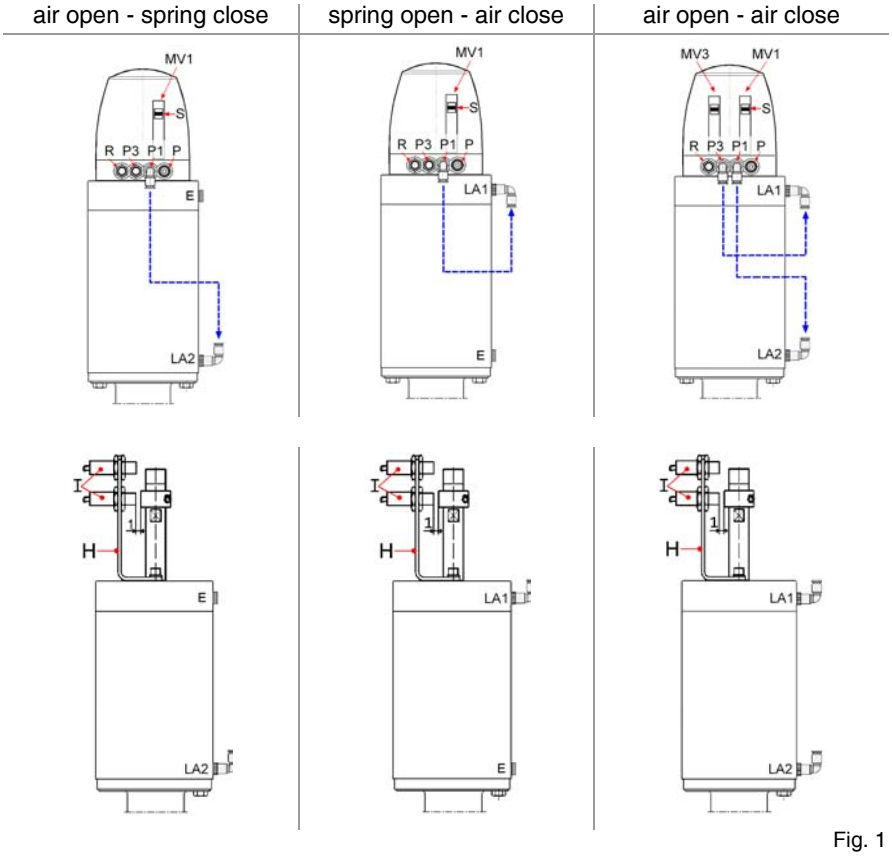


Fig. 1

11. Disassembly and assembly

11.1 Valve with manual operation

NOTE
All threaded joint have right-hand thread.

A1 ⇨ • Unscrew the clamp coupling (VK).
Dismount the valve insert (VE) out of the housing (VG).
Unscrew screws (21). Remove housing (VG) with flange (FL2). Dismount O-ring (D5).

11.2 Disassembly

➢ **Replacement of seals**

A2 ⇨ • Unscrew the thumb screw (19). Remove the crank handle (17), washer (15) and (16).

A3 ⇨ • Unscrew piston (1) ouf of the spindle (11) via (SW1/SW4). Remove O-ring (D1).

NOTE
Puncture the O-ring (D1) and (D7) at the centre with a pointed tool and remove them carefully from the groove.

A4/5 ⇨ • Unscrew the insert (2) from the lantern (14) (use a hook wrench). Remove the O-ring (D2) and seal (D3).

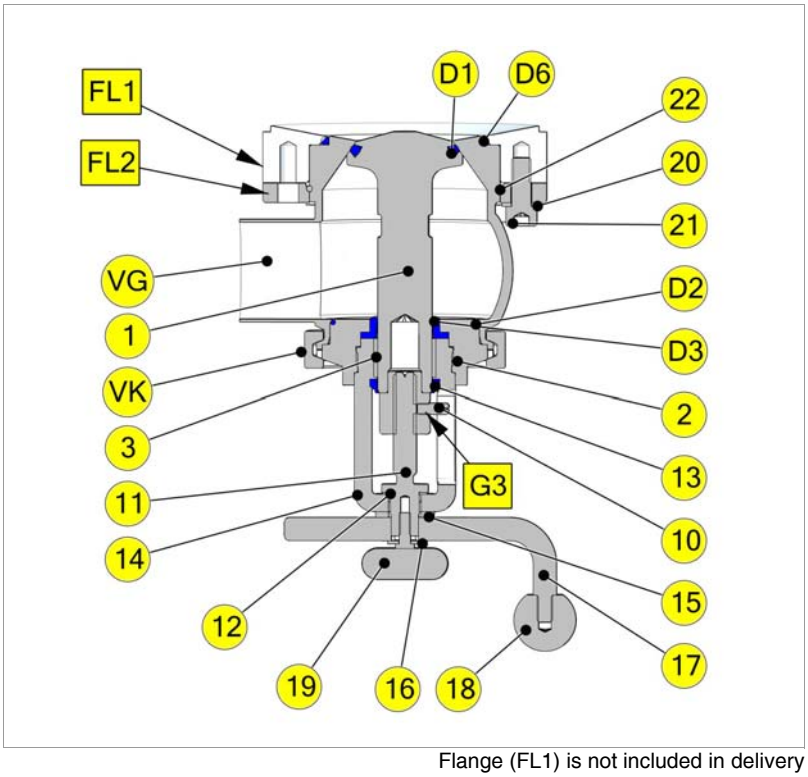
NOTE
Bearing bush (3) and the scraper ring (13) do not need to be removed for a seal change. The races are not included in the seal set. If they are worn, please order them with the seals (see wearing parts set).

11.3 Assembly

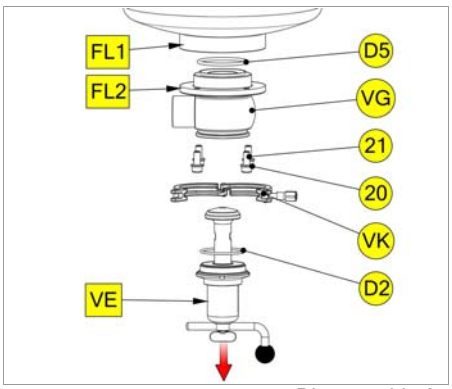
- Thoroughly clean and slightly lubricate mounting areas and running surfaces.

NOTE
Alternately press and roll the seal (D1) and (D7) into the groove with round body.

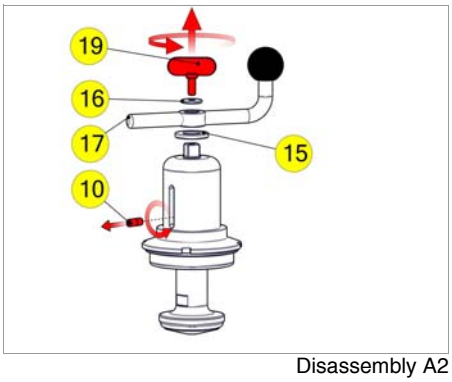
- Thread connection (G3) assembly with ⓘ ***removeable screw retention (e.g. Loctite 243)***
- Assemble in reverse order.
- Check the valve function.



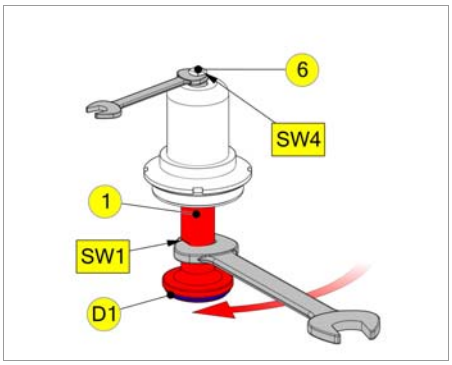
Flange (FL1) is not included in delivery



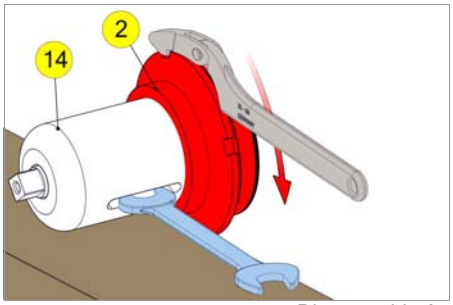
Disassembly A1



Disassembly A2



Disassembly A3



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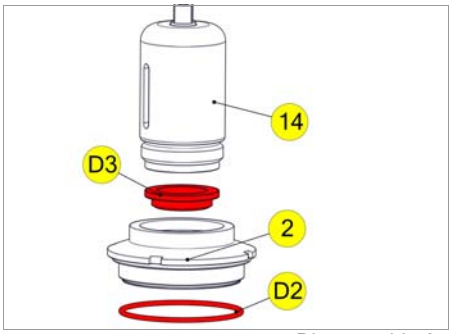


Disassembly A5

11.4 Valve with pneum. operation

NOTE
All threaded joint have right-hand thread.
Dismantle control air and electrical lines, complete sensor mounting or control head.

➢ **Remove pneum. valve insert (NC)**

B1 ⇨ • Charge the valve at connection LA2 with compressed air - the piston retracts.
B2 ⇨ • Unscrew the clamp coupling (VK). Dismount the compressed air at LA2. Dismount the valve insert (VE) out of the housing (VG).

➢ **Remove pneum. valve insert (NO) (DA)**

B2 ⇨ • Unscrew the clamp coupling (VK). Dismount the valve insert (VE) out of the housing (VG).

11.5 Disassembly

➢ **Replacement of seals**

B3 ⇨ • Unscrew piston (1) ouf of the spindle (6) via (SW1/SW3). Remove O-ring (D1).

NOTE
Puncture the O-ring (D1) at the centre with a pointed tool and remove them carefully from the groove.

B4/7 ⇨ • Unscrew the insert (2) from the lantern (4) (use a hook wrench).Remove the O-ring (D2) and seal (D3).

NOTE
Bearing bush (3) and (5) and O-Rings (D4) and (D5) do not need to be removed for a seal change. The races are not included in the seal set. If they are worn, please order them with the seals (see wearing parts set).

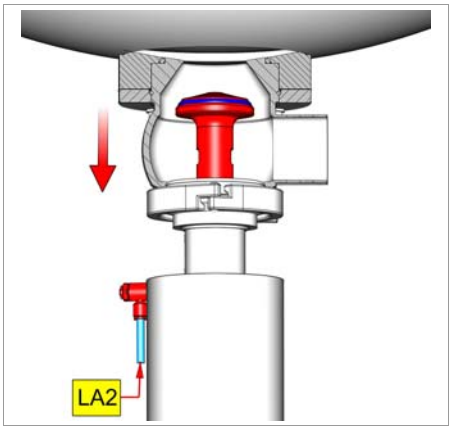
B5/7 ⇨ • Unscrew the lantern (4) from the actuator (7) (use a pin wrench at hole B) and remove lantern from the spindle (6). Dismantle O-rings (D4) and (D5).
B6/7 ⇨ • Unscrew insert (8) from the actuator (7) (use a pin type face wrench). Dismantle O-Rings (D4) and (D5).

11.6 Assembly

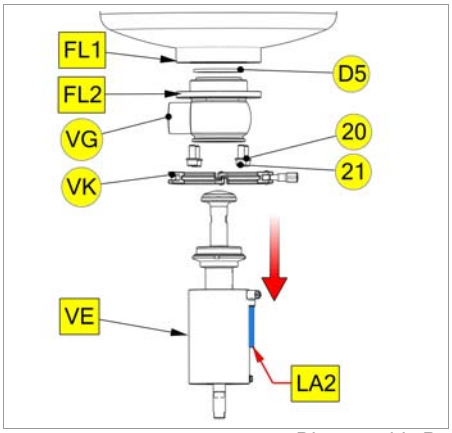
- Thoroughly clean and slightly lubricate mounting areas and running surfaces.

NOTE
Alternately press and roll the seal (D1) into the groove with round body.

- Thread connection (G1) and (G2) assembly with ⓘ ***removeable screw retention (e.g. Loctite 243)***
- Assemble in reverse order.
- Check the valve function.



Disassambly B1



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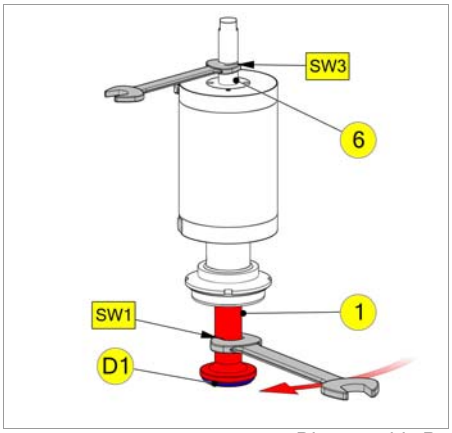
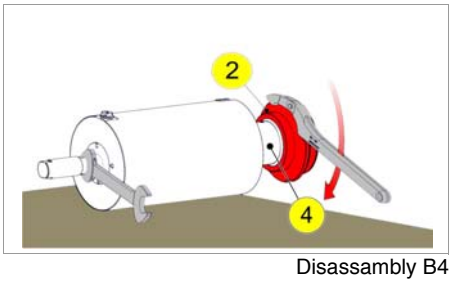
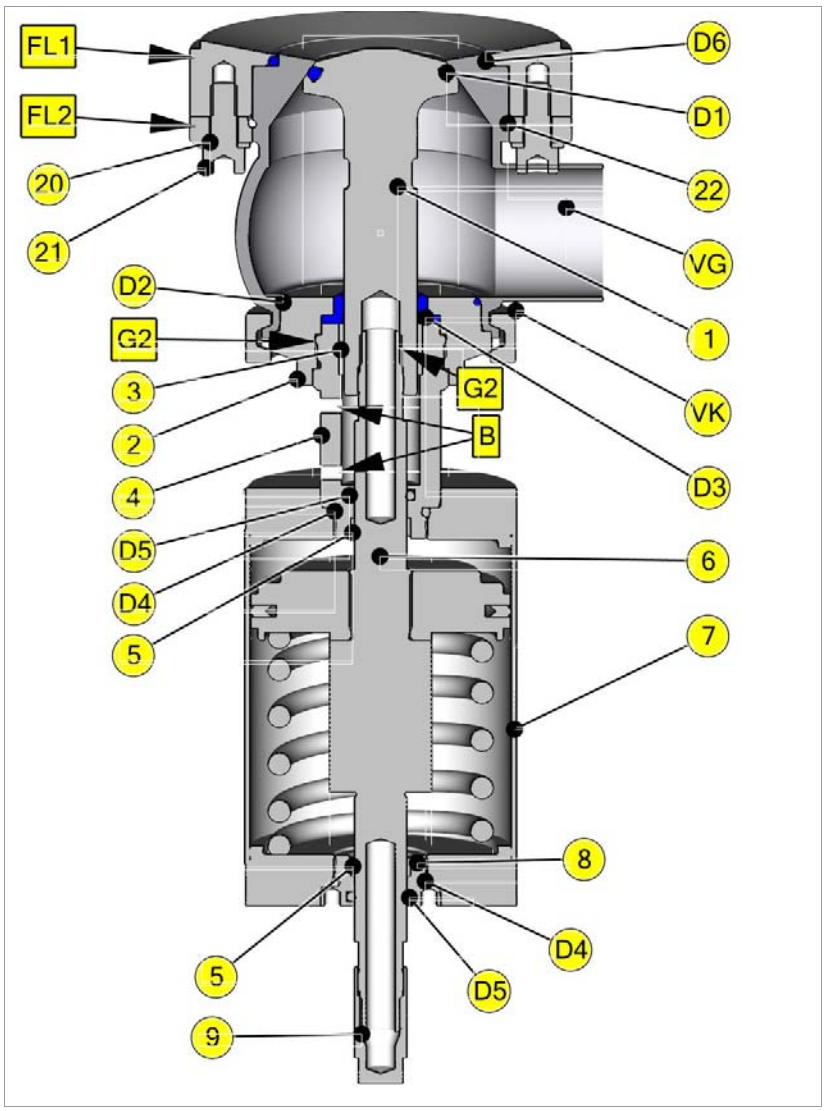


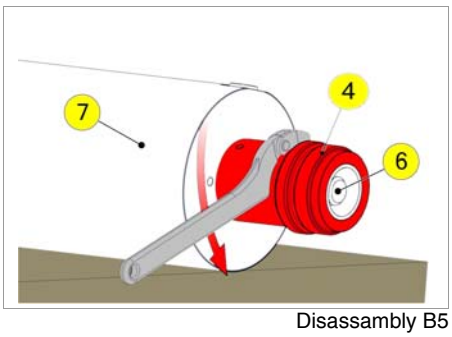
Disassambly B3



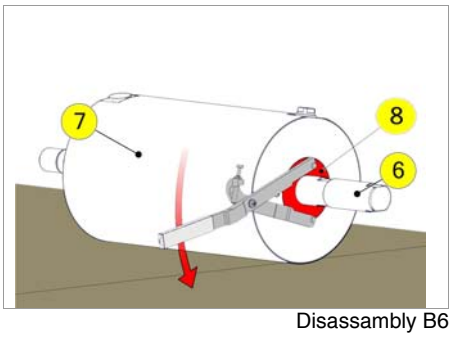
Disassambly B4



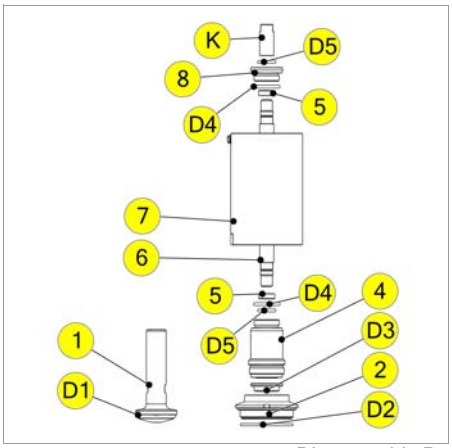
Flange (FL1) is not included in delivery



Disassambly B5



Disassambly B6



Disassambly B7

12. Drawings

VE = Valve insert pneumatic operation
Valve insert manual operation
VK = Clamp coupling
VG = Valve housing
FL1 = Flange
(not included in the delivery)
FL2 = Flange

20 = Disc
21 = Screw
22 = Retaining ring
D6 = O-ring

A1.1= Control head with stainless cap and 360° flashing light
A1.2= Control head with plastic cap

IG = Position indication
IG1 = Threaded rod
IG2 = Disc
IG3 = Nut
IG4 = Spring
M = Magnet

SA = Sensor mounting
SA1= Bracket
SA2= Switch cam
SA3= Setscrew
SA4= Screw
SA5= Disc
SA6= Sleeve transparent
SA7= Cover

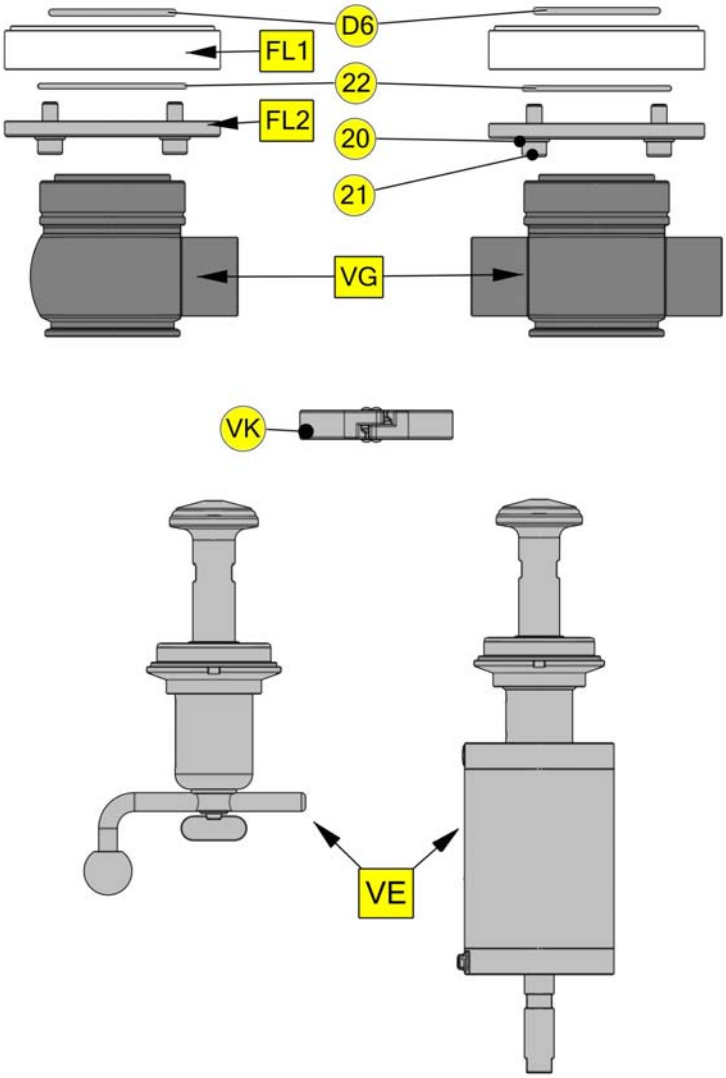


Fig. 2

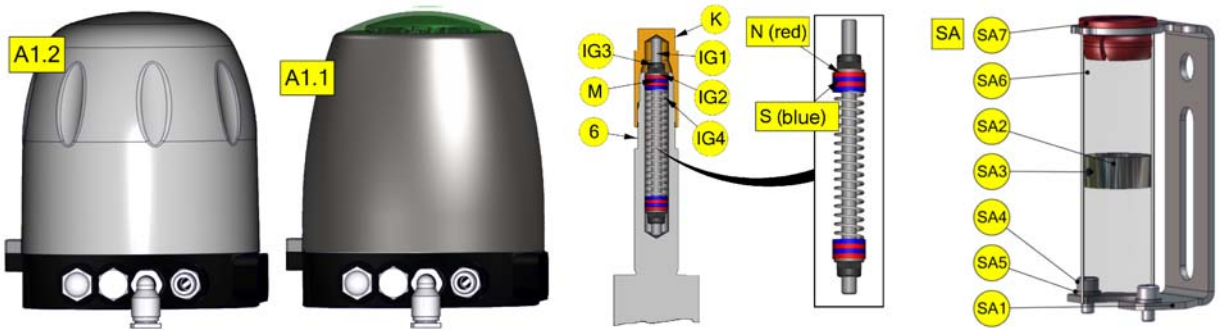


Fig. 3

12.1 Valve insert (VE)

Illustration: manual operation

- Valve insert 5505 050 020-041

pneumatic operation (air open / spring close)

- Valve insert 5506 050 020-041

1 = Piston
2 = Insert
3 = Bearing bush
4 = Lantern
5 = Bearing bush
6 = Spindle
7 = Actuator
8 = Insert- Lantern
9 = Piston rod
10 = Setscrew
11 = Spindle
12 = Bearing bush
13 = Scraper ring
14 = Housing cover
15 = Disc
16 = Disc
17 = Crank handle
18 = Spherical button
19 = Thumb screw

D1 = O-ring
D2 = O-ring
D3 = Seal
D4 = O-ring
D5 = O-ring

B = Bore
G1 - G3 = Thread connection locking with lock nut detachable (e.g. Loctite 243)
G4 = hread connection locking with lock nut high-strength (e.g. Loctite 2701)

SW = Wrench size

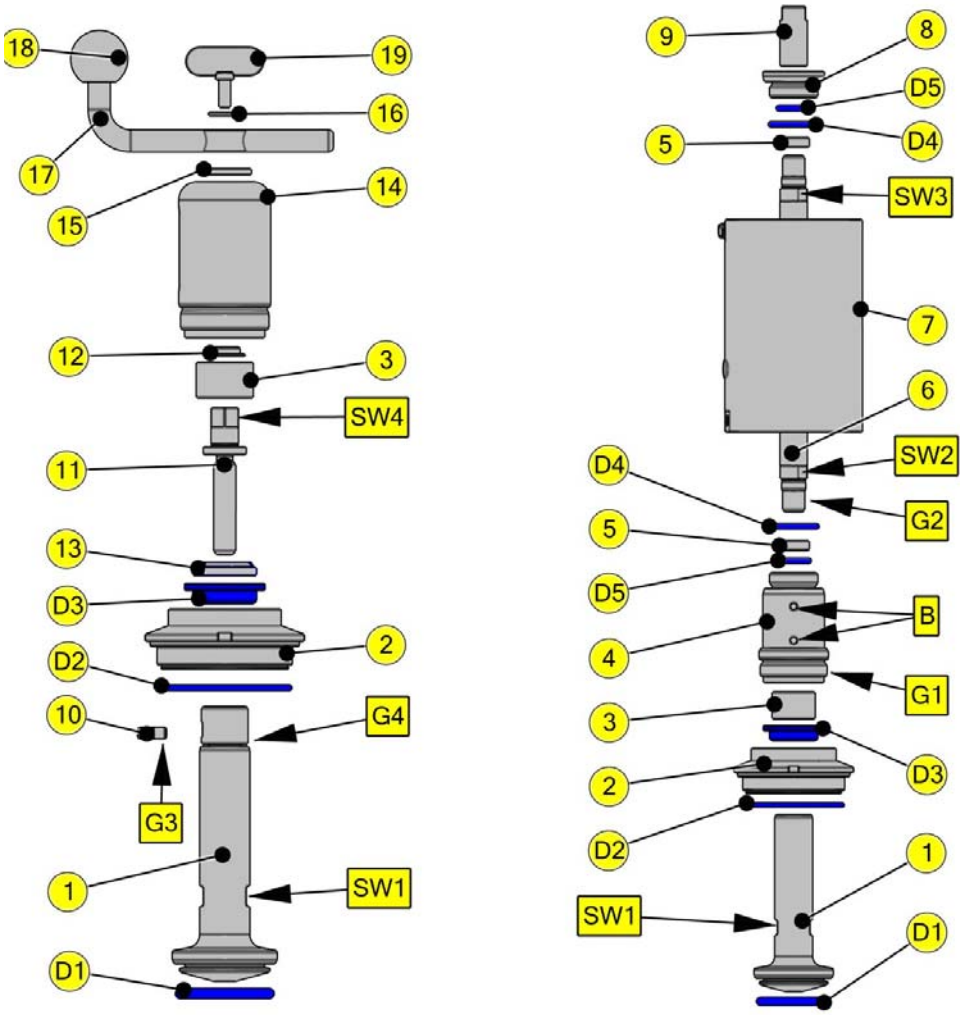


Fig. 4

NPS = Nominal pipe size
SW = Wrench size

	SW1	SW2	SW3	SW4	adjustable hook or pin wrench type A pin wrench type B hook wrench	adjustable pin type face wrench D40-80mm pin ø5
NPS 25 / 1“ **NPS 40 / 1½“** **NPS 50 / 2“** **NPS 65 / 2½“** **NPS 80 / 3“** **NPS 100 / 4“**	24	17	17	11	type B ø4 8027 000 060-000 type B ø6 8027 000 065-000 type A 8028 025 100-020	8028 340 085-000

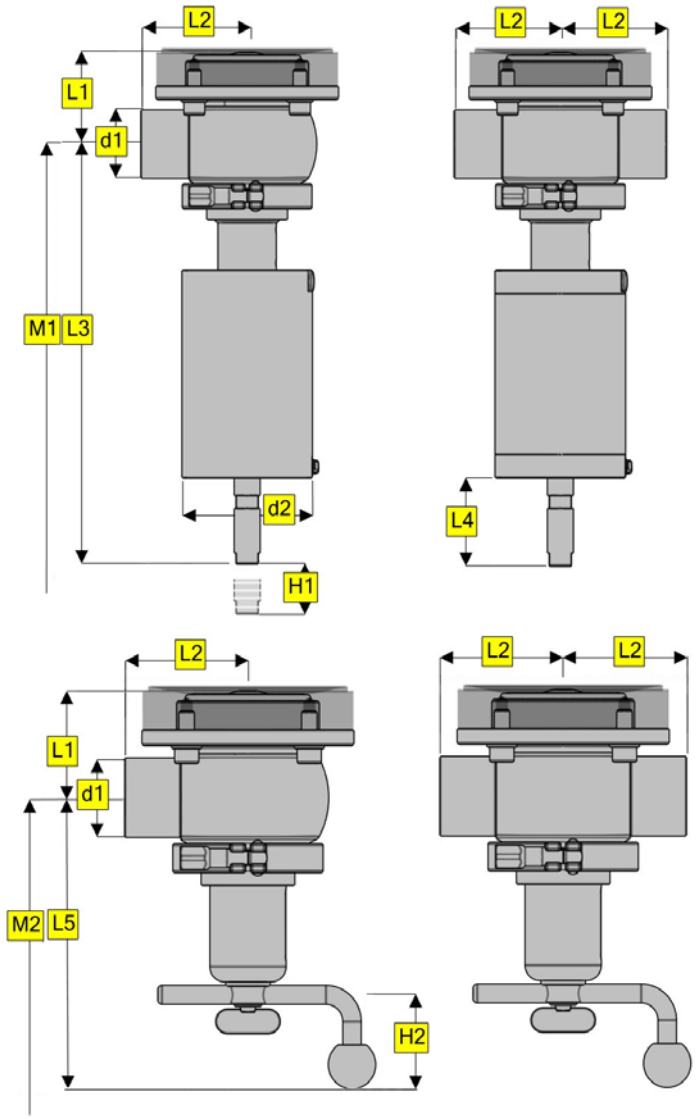
13. Dimensions

13.1 Size measurement table

NPS	d1	d2	L1	L2	L3		L4		L5	M1	M2	M3	H1	H2
					NC	NC	NO	NO		Installation dimension			stroke	stroke
25 **1“**	29x1,5 25,4x1,65	104	70,5	75	331 334	342 340	82 86	93 93	184	490	285	11 7	14 10	29x1,5 25,4x1,
40 **1½“**	41x1,5 38,1x1,65	104	70,5	85	325 327	348 352,5	70 73,5	93 93	190	500	295	23 19,5	25 22,5	41x1,5 38,1x1,
50 **2“**	53x1,5 50,8x1,65	104	69,5	85	330 322	354 353,5	69 61,5	93 93	196	510	310	24 21,5	26 23,5	53x1,5 50,8x1,
65 **2½“**	70x2 63,5x1,65	129	78,5	105	338 341	362 359	69 75	93 93	204	550	345	24 18	26 20	70x2 63,5x1,
80 **3“**	85x2 76,1x2	167	101,5	115	341 337	370 366	64,5 64,5	93 93	211	580	380	28,5 28,5	30,5 21,5	85x2 76,1x2
100 **4“**	104x2 101,6x2	230	120	130	345 352	379 378	59 61,5	93 93	221	630	425	34 34	30,5 28	104x2 101,6x

Valves that do not meet the catalogue standards, can lead to dimensional deviations.
air open - spring closed = NC; air closed - spring open = NO

13.2 Dimensioned drawing



14. Wearing parts

Item	Material	Pce.	NPS 25 / 1“	NPS 40 / 1½“	NPS 50 / 2“	NPS 65 / 2½“	NPS 80 / 3“	NPS 100 / 4“
3	XSM	1x	Bearing bush 8050 028 020-156					
5	XSM	2x	Bearing bush 8050 020 007-156					
13	NBR	1x	Scraper ring 2330 028 007-055					
D1	EPDM HNBR	1x	O-Ring 2304 028 035-159 2304 028 035-157	O-Ring 2304 041 035-159 2304 041 035-157	O-Ring 2304 044 053-159 2304 044 053-157	O-Ring 2304 053 053-159 2304 053 053-157	O-Ring 2304 069 053-159 2304 069 053-157	O-Ring 2304 088 053-159 2304 088 053-157
D2	EPDM HNBR	1x	O-Ring 2304 069 026-159 2304 069 028-050	O-Ring 2304 069 026-159 2304 069 028-050	O-Ring 2304 069 026-159 2304 069 028-050	O-Ring 2304 082 026-159 2304 082 026-050	O-Ring 2304 098 035-159 2304 098 035-050	O-Ring 2304 117 035-159 2304 117 035-050
D3	EPDM HNBR	1x	Seal 5506 050 009-054 Seal 5506 050 009-050					
D4	NBR	2x	O-Ring 2304 030 035-055					
D5	HNBR	2x	O-Ring 2304 019 035-171					
D6	EPDM HNBR/NBR	1x	O-Ring 2304 057 035-054 2304 057 035-050	O-Ring 2304 063 053-170 2304 063 053-050	O-Ring 2304 075 040-054 2304 075 040-055	O-Ring 2304 090 040-170 2304 090 040-050	O-Ring 2304 102 050-159 2304 100 050-050	O-Ring 2304 133 053-159 2304 133 053-050

14.1 Seal kits

Angle valve Type: 5527 and 5528

Seals (D1), (D2), (D3), (D6)

	NPS 25 / 1“	NPS 40 / 1½“	NPS 50 / 2“	NPS 65 / 2½“	NPS 80 / 3“	NPS 100 / 4“
HNBR	5506 025 990-050	5506 040 990-050	5506 050 990-050	5506 065 990-050	5506 080 990-050	5506 100 990-050
EPDM	5506 025 990-054	5506 040 990-054	5506 050 990-054	5506 065 990-054	5506 080 990-054	5506 100 990-054

14.2 Welding flange

	DN 25 1 “	DN 40 1½ “	DN 50 2 “	DN 65 2½ “	DN 80 3 “	DN 100 4 “
1.4404 AISI316L	5727 025 001-040	5727 040 001-040	5727 050 001-040	5727 065 001-040	5727 080 001-040	5727 100 001-040

15. Manufacturing

15.1 Structure of Article number

5528 050 030 - 041

- 041 — Material in product contact / Exterior finish / Interrogation system
- 030 — Material seals in product contact / Housing type / kind of actuation
- 050 — Valve size
- 5528 — Kind of actuation
- 5528 — Product type

➤ Product type / Kind of actuation

552**7** = Tank outlet valve KI-DS manual operation
552**8** = Tank outlet valve KI-DS pneumatic operation

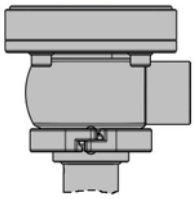
➤ Valve size

NPS = Nominal pipe size

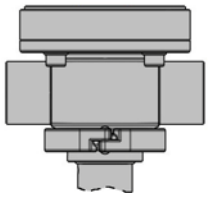
DIN	**025** = NPS25	**040** = NPS40	**050** = NPS50	**065** = NPS65	**080** = NPS80	**100** = NPS100
INCH	**026** = NPS1	**038** = NPS1½	**051** = NPS2	**064** = NPS2½	**076** = NPS3	**101** = NPS4

➤ Housing type

S
Typ:552x DN **03x**
Typ:552x DN **13x**
Typ:552x DN **33x**



SS
Typ:552x DN **23x**



➤ Material seal / Construction modifications

Material seals in product contact:		- EPDM		- HNBR	
Modifications: Type of actuation:	- air open - spring close	552x NPS **030**-xxx	S	552x NPS **035**-xxx	S
		552x NPS **230**-xxx	SS	552x NPS **235**-xxx	SS
	- spring open - air close	552x NPS **130**-xxx	S	552x NPS **135**-xxx	S
	- air open - air close	552x NPS **330**-xxx	S	552x NPS **335**-xxx	S

➤ Material in product contact / Exterior finish

020 -	1.4301 / AISI304	- bright turned	**040** -	1.4404 / AISI316L	- bright turned
021 -	1.4301 / AISI304	- E-polished	**041** -	1.4404 / AISI316L	- E-polished
022 -	1.4301 / AISI304	- unpolished, glass-bead blasted	**042** -	1.4404 / AISI316L	- unpolished, glass-bead blasted

➤ Interrogation system

Article number	Control System or Interrogation System (A1, A2)
552x NPS xxx **-041**	Valve without control- or interrogation system
552x NPS xxx **-750**	Valve with Sensor mounting set (5630 005 000-020)
552x NPS xxx **-6xx**	Control head ASi-Bus
552x NPS xxx **-K6xx**	Control head KI-Top ASi-Bus
552x NPS xxx **-5xx**	Control head SPS
552x NPS xxx **-K5xx**	Control head KI-Top SPS

NPS - Nominal pipe size e.g. 552x 050 030-041

KIESELMANN
FLUID PROCESS GROUP

Declaration of incorporation

Translation of the original

Manufacturer / authorised representative:	KIESELMANN GmbH Paul-Kieselmann-Str. 4-10 75438 Knittlingen Germany
Authorised representative, for compiling technical documents:	Achim Kauselmann KIESELMANN GmbH Paul-Kieselmann-Str. 4-10 75438 Knittlingen Germany

Product name	**Function**
pneum. Lift actuators	Stroke movement
pneum. Rotary actuators	Rotary movement
Ball valves	Media cutoff
Butterfly valves	Media cutoff
Single seat valves	Media cutoff
Flow control valves	Control of liquefied media
Throttle valve	Control of liquefied media
Overflow valve	Definition of fluid pressure
Double seat valve	Media separation
Bellow valves	Sampling of liquids
Sampling valves	Sampling of liquids
Two way valves	Media cutoff
Tankdome fitting	Prevention of overpressure and vacuum, Tank cleaning

The manufacturer hereby states that the above product is considered as an incomplete machine in the sense defined in the Directive 2006/42/EC on Machinery. The above product is exclusively intended to be installed into a machine or an incomplete machine. The said product does not yet conform to all the relevant requirements defined in the Directive on Machinery referred to above for this reason.

The specific technical documents listed in Appendix VII, Part B, have been prepared. The Authorized Agent empowered to compile technical documents may submit the relevant documents if such a request has been properly justified.

Commissioning of an incomplete machine may only be carried out if it has been determined that the respective machine into which the incomplete machine is to be installed conforms to the regulations set out in the Directive on Machinery referred to above.

The above product conforms to the requirements of the directives and harmonized standards specified below:

- DIN EN ISO 12100 Safety of machinery

Knittlingen, 03. 08. 2015

Klaus Dohle
General Director